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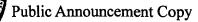
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No. 349412

Date of Application: April 2? (illegible), Year 87 (1998)

Case Number: 87206039 Classification: A62B 18/08

349412

### Novel (New Type) Device Description

1. Name of Novel Device: Improved Structure of a Gas Mask

2. Creator: Name - HO Tienlu

Nationality - Republic of China

Address - No. 21, Chuanshui Lane, Tunghu Village, Taichuan County (Taiwan, Republic of China)

3. Assignee: Name – HO Tienlu

Nationality - Republic of China

Address – No. 21, Chuanshui Lane, Tunghu Village, Taichung County (Taiwan, Republic of China)

Representative

4. Chinese Abstract of Creation (Name of Created Device: Improved Structure of a Gas Mask)

The improved structure of a gas mask, which primarily consists of: a rear mask body, a battery socket, and a front mask body. Structurally, the mask is very light and convenient to use. Because the front mask body is equipped with a motor and a fan for drawing in air directly, and sent to the rear mask body for respiration by the user; resulting in very little loss of the efficiency for the motor, therefore, increase the utilization efficiency of the motor and the fan; and the device can be directly worn over the face, causing no restriction on the activity of other parts of the body.

#### 5. Description of Created Device:

#### [Field of Technology]

The created device concerns an improved structure of a gas mask, especially a mask which is very convenient to use, and has a good utilization efficiency while casing no restriction on the movement of the body.

### [Previous Technology (Prior Arts)]

Current gas masks, besides military applications, generally are used for scheduled pesticide application by farmers.

Shown in Figure 6 is a current gas mask that is used for pesticide application; the mask consists of a helmet (not shown), and a respiration mask 81 covering the nose and mouth of user 9; the respiration mask 81 is connected to one end of a air hose 82, while the other end of the air hose 82 is connected to a filtering device 8. The filtering device 8 is consisting of a filter element and a fan (both are not shown); air is being drawn in by the fan of filtering device 8, passing through filtering element and the air hose 82 to reach the respiration mask 81, supplying clean and cool air to the user.

However, such gas mask suffers the following disadvantages in actual practice:

- 1. It is not very convenient: The filtering device 8 of this type of gas mask is being carried around the waist; it is necessary for the air to pass through an air hose to reach the respiration mask 81. However, the distance from the waist to the nose and mouth is relatively lengthy, in order for the user 9 to move his head 91 and body 92 conveniently, additional length is added to the air hose, which is restricting the movement of the user when he is working in a tighter space, causing certain degree of inconvenience; especially when he is spraying pesticides, the user must also carry the spraying equipments. Therefore, it is quite inconvenient to use.
- 2. There is a substantial loss of pressure through the air hose: Because the air hose 82 is twisting and turning, there is a substantial loss of pressure in the air flow; therefore, the efficiency of the air supply fan is not very high; resulting in not only a substantial loss in its delivery efficiency, but also a large waste in energy resource.
- 3. Equipment is quite cumbersome: There are many, many commonly known component elements; as mentioned above, they include elements such as a helmet, the respiration mask 81, an air hose 82, and a filtering device 8, etc.. It is quite cumbersome.
- 4. Inconvenient in charging: The commonly known air hose 82 is quite lengthy, therefore, it is necessary for the fan to equip with a relatively high power motor in order to deliver adequate pressure for the air supply; therefore, it is usually using a rechargeable battery (not shown). However, in general agricultural applications, because the farm land area owned by the farmer is rather small, the usage is limiting to only a few times (scheduled seasonal applications) each year; and for each application, the spraying time is approximately less than 3 hours; therefore, using a rechargeable storage battery to supply power is not only cumbersome, but also unnecessary.

#### [Objectives and Effects]

The primary objective of this created device is to resolved the issues mentioned above, thus provide a gas mask with an improved structure, by equipping a motor and a fan in the front mask body, to directly draw in air supply and deliver to the rear mask body for breathing by the user; which is resulting in a minimum loss in the power of the motor, increasing the utilization efficiency of the motor and the fan; and since it can be worn directly over the facial area, it is not restricting the movement of other parts of the body.

#### [Description of Technical Contents]

This creation is to provide an improved structure for a gas mask, which includes:

A rear mask body. The rear mask body consists of a backward facing opening; the external sleeve of the opening is equipped with an annular sealing cushion, which is made of a soft rubber; the rear mask body also has an air inlet port; and the bottom side of the said body has an exhaust port; the back of the intake port and the bottom of the exhaust port are each equipped with a check membrane, respectively;

A battery socket, which is located at the bottom of the rear mask body; an exhaust air space is formed between the battery socket and the rear mask body; there is an exhaust air port located on the back bottom edge of the battery socket; and there is a mounting space on the bottom of the battery socket, allowing the placement of multiple batteries in the said mounting space; there is a bottom cover on the opening of the said mounting space;

A front mask body; which is attached at the front end of the rear mask body and the battery socket; there is a circular attachment seat at the front end of the said front mask body; there is a circular filtering device in front of the said attachment seat; the said filtering device is mounted on the attachment seat by screwing the cover body onto the front mask; there is a breathing hole in the said attachment seat; and there is a battery powered motor in the back side bottom edge of the said front mask body; the front end of the motor is connected to a fan, the fan is located just inside the breathing hole.

It is not difficult to further understand, in depth, the objectives mentioned above and other objectives as well as the advantages of this creation, from the detailed description of the following selected application example and the attached drawings.

Of course, although certain components, or arrangement of the components of this creation may be different, yet the selected application example, is being explained in detail in this description; and the structure is shown in the attached drawings.

#### [Brief Explanation of the Figures]

The novel creation will be described in detail with the following application example and corresponding drawings.

Figure 1 is a three dimensional drawing of this creation.

Figure 2 is a cross-sectional drawing of the II – II plane in Figure 1.

Figure 3 is a sketch showing the device of this creation is being worn by an user.

Figure 4 is a sketch showing the user is breathing in air.

Figure 5 is a sketch showing the user is breathing out air.

Figure 6 is a sketch showing the user is wearing a conventional gas mask.

#### [Explanation of Figuring Numbers]

	(Conventional Ma	ask)				
Filtering device 8		8	Respiration mask	· 81	Air hose	82
	User	9	Head of user	91	Body of user	92
	(Mask of this Creation	ation)				
	Rear mask body	1	Opening	11	Sealing cushion	12
	Air intake port	13	Air exhaust port	14	Check membrane	15
	Battery socket	2	Exhaust space	14 .	Exhaust hole	22
	Placement space	2	Batteries	23	Bottom cover	25
	Front mask body	3	Attachment seat	3 1	Cover body	32
	Breathing hole	33	Motor	34	Fan	35
	Lugs	36	Tie string	37	Filter element	4
	User	5	Nose	51	Mouth	52
	Face	53	Head	54	•	

[Detailed Description of Application Example]

Please refer to Figures 1 through 5; showing in these figures are the structure of this selected application example of this creation, which is used for explanation only, the patent application is not restricted to such structure.

The creation is consisting of:

A rear mask body 1; the said rear mask consists of a backward facing opening 11, the external sleeve of the said opening 11 has an annular sealing cushion 12; the said sealing cushion 12 is made of a soft rubber; the front side of the said rear mask body 1 has an air intake port 13, while the bottom side of the said rear body has an air exhaust port 14; the back of the intake port and the bottom of the exhaust port are each equipped with a check membrane 15, respectively.

A battery socket 2, which is located on the bottom of the rear mask body; an air exhaust space 21 is form between the said battery socket 2 and the rear mask body; there is an air exhaust hole 22 at the bottom back edge of the battery socket 2; there is an upward facing hollow placement space 23 at the bottom of the said battery socket 2; the said placement space 23 allows the placement of three commonly used ordinary batteries 24; and there is a bottom cover 25 for the opening of the said placement space 23.

A front mask body 3, which is attached at the front end of the rear mask body and the battery socket 2; there is a circular attachment seat 31 at the front end of the said front mask body 3; there is a circular filtering device 4 in front of the said attachment seat 31; the said filtering device 4 is mounted on the attachment seat by screwing the annular cover body 32 onto the front mask body 3; there is a breathing hole 33 in the said anchoring seat 31; there is battery 24 powered motor 34 in the back side bottom edge of the said front mask body 3; the front end of the motor 34 is connected to a fan 35, the fan 35 is located just inside the breathing hole 33. In addition, there are lugs 36 on the left and right sides of the front mask body 3, respectively; the two lugs 36 are used to connect a tie string 37.

Referring to Figures 3 through 5, when using the device, three batteries 24 are placed in the placement space 23 of the battery socket 23; at the same time, a new filter element 4 is placed in the attachment seat 31 and the cover body 32; the user 5 then wearing the device of this creation to cover the nose 51 and mouth 52 area, allowing the sealing cushion 12 to tightly cling to the face 53 with no leak; the tie string 37 is tie together tightly over the head 54; the power is then switched on (not shown in the drawing), the motor 35 starts to run, turning the fan 34 and start to draw in air; air is passing and filtering through the filter element, providing fresh clean air containing no contamination and toxic substance; such fresh clean air is flowing into the front mask body 3; when the user 5 is breathing in the air, the amount of air inside the rear mask body 1 is reduced, resulting in a drop of internal pressure, the check membrane 15 of the air intake port 13 is opened by the pressure of the fresh clean air, allowing fresh clean air to enter the rear mask body 1 through air intake port 13. When the user is breathing out exhaust air, the amount of air inside the rear mask body 1 increases, thus increasing the internal pressure, closing the check membrane 15 of the said air intake port 13, while the check membrane 15 of the air exhaust port 14 is being opened, exhaust air is discharged through exhaust hole 22 of the air exhaust port 14.

It can be seen from the above description, the volume of this created device is quite small. It can be wear directly over the face 53. There is no unnecessary extra component to restrict the

movement of other parts of the body; which is much handier and more convenient.

Especially, the motor 34 and the fan 35 are directly mounted inside the front mask body 3, the air drawn in may enter directly into the rear mask body 1 for the user 5 to breathe, offering not too large a resistance in the air passage, the effectiveness of delivery of the fan 35 is very good; therefore, there is very little loss in the efficiencies of the motor 34 and the fan 35.

The application example described above is used to illustrate this creation, but not to restrict this creation; any change in numerical values or replacement of similar components shall be covered in the scope of this creation.

The detailed description above will allow those who are familiar in the art of the field to clearly understand that this creation is indeed capable of reaching the objectives mentioned above, therefore, meeting the requirements of the patent laws, thereupon, we are submitting an application for a novel creation.

#### 6. Patent Claims:

1. An improved structure for a gas mask, which consists of:

A rear mask body. The rear mask body consists of a backward facing opening; the external sleeve of the opening is equipped with an annular sealing cushion, which is made of a soft rubber; the rear mask body also has an air inlet port; and the bottom side of the said body has an exhaust port; the back of the intake port and the bottom of the exhaust port are each equipped with a check membrane, respectively;

A battery socket, which is located at the bottom of the rear mask body; an exhaust air space is formed between the battery socket and the rear mask body; there is an exhaust air port located at the back bottom edge of the battery socket; there is a mounting space on the bottom of the battery socket, allowing the placement of multiple batteries in the said mounting space; there is a bottom cover on the opening of the said mounting space;

A front mask body; which is attached at the front end of the rear mask body and the battery socket; there is a circular attachment seat at the front end of the said front mask body; there is a circular filtering device in front of the said attachment seat; the said filtering device is mounted on the attachment seat by screwing the cover body onto the front mask; there is a breathing hole in the said attachment seat; and there is a battery powered motor in the back side bottom edge of the said front mask body; the front end of the motor is connected to a fan, the fan is located just inside the breathing hole.

2. As the improved structure for a gas mask as described in Claim 1, in which there is a lug on each of the left and right side of the front mask body, respectively. The two said lugs are used for connecting to a tie string.

(Attached figures designated Figure 1, Figure 2, Figure 3, Figure 4, Figure 5, and Figure 6, respectively)

# 公告本

申请	日期	87. 4. 2
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英文	一、 <del>發明</del> 一、新型名稱	1 1	防毒面具之改	文 良 結 構		
四 籍 中華民國  在 · 居所  本 · 中華民國  三 · 中持人						
上、创作人 在、居所 台中縣大里市東湖里泉水巷 21號  是 名 (名稱) 因 新 中華民國 (生、居所 (事務所) 台中縣大里市東湖里泉水巷 21號		姓名	何天祿			
住、居所 台中縣大里市東湖里泉水巷 21號  姓 名 (名稱) 國 籍 中華民國  主、申請人 住、居所 (事務所)	<del>&amp;#&lt;/del&gt;&lt;/td&gt;&lt;td&gt;國籍&lt;/td&gt;&lt;td&gt;中華民國&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;姓 名 何 天 僚 図 籍 中華民國  - 中特人 住、居所 (事務所) 台中縣大里市東湖里泉水巷 21號&lt;/td&gt;&lt;td&gt;二、創作人&lt;/td&gt;&lt;td&gt;住、居所&lt;/td&gt;&lt;td&gt;台中縣大里市&lt;/td&gt;&lt;td&gt;ī 東 湖 里 泉 水&lt;/td&gt;&lt;td&gt;( 巷 21號&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(名稱)&lt;br&gt;國 籍 中華民國&lt;br&gt;住、居所&lt;br&gt;(事務所)&lt;br&gt;台中縣大里市東湖里泉水巷 21號&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;三、中桥人 住、居所 台中縣大里市東湖里泉水巷 21號&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;何天操&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;arting.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(字務所)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;國 籍&lt;/td&gt;&lt;td&gt;中華民疆&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;**************************************&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;代表人姓 名 -1-&lt;/td&gt;&lt;td&gt;三、申靖人&lt;/td&gt;&lt;td&gt;住、居所(事務所)&lt;/td&gt;&lt;td&gt;台中縣大里市&lt;/td&gt;&lt;td&gt;東湖里泉水&lt;/td&gt;&lt;td&gt;: 巷 21號&lt;/td&gt;&lt;td&gt;&lt;i&gt;:&lt;/i&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;-1-&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;代表人姓名&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;.:&lt;/td&gt;&lt;td&gt;÷&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;- 1 -&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Maria Salahari da Salahari&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</del>					

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### 四、中文創作摘要(創作之名稱:

防毒面具之改良结構

一種防毒面具之改良結構,主要包括有:一後單體、一種池座及一前單體。在結構上十分輕巧。藉前單體內設有馬達及風騰,以直接吸引空氣,並送至後單體供使用者呼吸,不會造成馬達功率損失,增加馬達、風扇之使用效益,而且可直接配帶於驗部,不會妨礙身體之其他部位活動。

英文創作摘要 (創作之名稱:

- 2 -

### 五、創作説明(/)

### 【技術領域】

本創作係有關一種防毒面具之改良結構,尤指一種同時兼具整巧、使用效率良好且不妨礙身體活動之防毒面具

### 【先前之技術】

按現有之防毒面具,除了軍事上的用途外,平時一般人最常用情况為農人在定期喷牆農藥時。

### 一、使用不便;

此種防毒面具之過減裝置8條配帶於豐部,所以必需透過空氣管82方可等引空氣至呼吸罩81,但是,豐部至鼻子、嘴巴之距離為較長,且為了方便使用者9之頭部91及身體92之活動,空氣管82又必需更長一些,可是在狹窄空間工作時又會阻礙了使用者之活動,較為不方便,特別是在噴牆展棄時,使用者選得攜帶噴灘器具,因此,在使用上程不方便。

二、空氣管之壓力損失大:

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### 五、創作説明(工)

由於,該空氣管82係為彎彎曲曲的狀態,對於空氣之流動造成壓力損失,也使得送風機之效率不高,不但其送風效果大打折扣,亦造成能源之浪費。

三、裝備笨重:

習知之組件繁多,如前所述,包括頭盔、呼吸罩 8 1、空氣管 8 2 及過濾裝置 8 等元件,十分笨重。

四、充實不便:

習知之空氣管82根長,因此必須搭配一功率較大之送風機才能送出足夠壓力之空氣,故,通常是配合一可充電式之智電池(圖中未示)。然而,在一般之長樂使用上,通常自有之農地面積有限,一年內才使用數次(固定之季節),每次之噴灑時間也大約在3小時以內,故,以管電池方式提供電能不僅笨重且無必要。

【目的及功效】

本创作之志要且的,在於解決上述的問題而提供一種防毒面具之改良結構,輔前單體內設有馬達及風扇,以直接吸引空氣,並送至後單體供使用者呼吸,不會造成馬達功率損失,增加馬達、風扇之使用效益,而且可直接配帶於臉部,不會妨礙身體之其他都位活動。

【技術内容】

本創作係提供一種防毒面具之改良結構,包括有:

一後單體,該後單體具有一向後之開口,該開口之外 倒客設有一環狀之密對整,該密對整係以軟實棒膠所製造 而成,該後單騰之前側面具有一塩風口,而該後單體之底

### 五、創作説明(3)

面具有一出風口,該進風口之後側及出風口之底部分別具有一止囲襲;

一電地壓,其係設於後單體之底部,該電池壓與後單體之間形成一排無空間,該電池壓之後側底錄具有排無口,該電池壓之底部具有一容置空間,該容置空間中可放置多數電池,該容置空間之開口處設有一底蓋;

一前單體,其係固設於後單體與電池座之前端,該前單體之前端具有一圖形之固定座,該固定座之前端設有一圖形之邊灣體,該邊灣體係以一環形之蓋體螺固於固定座,該固定座內具有一週孔,該前單體後價底線設有一由電池提供電源之馬達,該馬達之前端連結一風扇,該風扇恰好位於透孔內。

本創作之上述及其他目的與優點,不難從下述所選用實施例之詳細說明與附屬中,獲得深入了解。

當然,本創作在某些另件上,或另件之安排上容許有所不同,但所選用之實施例,則於本說明書中,予以詳細說明,並於附屬中展示其構造。

#### 【圖式簡單說明】

· 兹 以 一 較 佳 實 施 例 並 配 合 圖 式 詳 梱 說 明 本 創 作 於 後 :

第1圖係本創作之立體團

第2個條第1圖之Ⅱ一Ⅱ韵視圖

第 3 圖 係 本 創 作 被 使 用 者 配 帶 時 之 默 懸 示 意 圖

第 4 圖 係 本 餅 作 於 使 用 者 吸 氣 時 之 使 用 狀 態 示 意 圖

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### 五、創作説明(4)

第 5 圖 係 本 創 作 於 使 用 者 呼 氣 詩 之 使 用 狀 態 示 意 圖 第 6 圖 係 習 用 防 毒 面 具 之 使 用 狀 態 示 意 圖

### 【團蛛說明】

(習用部份)

過濾裝置8 呼吸管81 空氣管82

使用者 9 頭部 9 1 身體 9 2

(本健作部份)

後軍體 1 開口 1 1 密封整 1 2

進風口13 出風口14 止回膜15

電池座2 排氣空間21 排氣口22

容置空間 2.3 電池 2.4 底蓋 2.5

前單體 3 固定座 3 1 蓋體 3 2

**週孔33 馬達34 黒扇35** 

通達體 4

使用者5 鼻子51 嘴巴52

臉部 5 3 顕部 5 4

### 【實施例之詳細說明】

競多問第 1 至 5 圖,圖中所示者為本創作所選用之實施例之結構,此僅供說明之用,在專利申請上並不受此種結構之限制。

本創作係包括有:

一後單體 1 ,該後單體 1 具有一向後之間 I 1 1 ,該 開 I 1 1 之外 例 客 設 有 一 環 狀 之 密 封 整 1 2 , 該 密 封 整 1

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## 五、創作説明(5)

係以軟質律膠所製造而成,該後單體 1 之前側面具有一途 風口 1 3 ,而該後單體 1 之底面具有一出風口 1 4 ,該進風口 1 3 之後側及出風口 1 4 之底部分別具有一止回膜 1 5。

一前單體3,其係固設於後單體1與電池座2之前編,該前單體3之前編具有一圖形之固定座31,該一层层31。

請多閱第3至5團,使用時,於電池座2之容置空間23內置入三個電池24,並於固定座31與蓋體32中置入新的過滤體4,使用者5再將本創作配帶於鼻子51 與嘴巴52處,使密封整12緊貼著臉部53,不使其產生地數。並將數子37號場類部54颗聚

### 五、創作説明(6)

醫中未示),該馬達34即可開始選轉,並帶動風扇35轉動,風扇35轉動時即開始抽引空氣,空氣經過過減變4之過減,形成沒有難買、毒物之情新空氣,此等清新空氣級少,且內壓力亦降低,該造風口13之止回膜15即被衝衝空氣之壓力打開,清新空氣即由違風口13。之即即分,內壓力亦提高,該造風口13之止回膜15與氣增加,內壓力亦提高,該造風口13之止回膜15級關口14、排氯口22排出。

由上述可知,本創作之體積基小,可直接配帶於臉部53,不會有多餘的部份影響身體或其他部位之活動,而且輕便許多。

尤其,該馬達34與風扇35直接設於前單體3內, 其所吸引之空氣可直接進入後單體1內供使用者5呼吸之用,空氣之行進過程中不會受到太大之阻力,風扇35之 送風效果仍非常良好,所以馬達34及風扇35之效率不 致損失。

以上所述實施例之揭示係用以說明本創作,並非用以限制本創作,故學凡數值之變更或等效元件之置換仍應隸圖本創作之範疇。

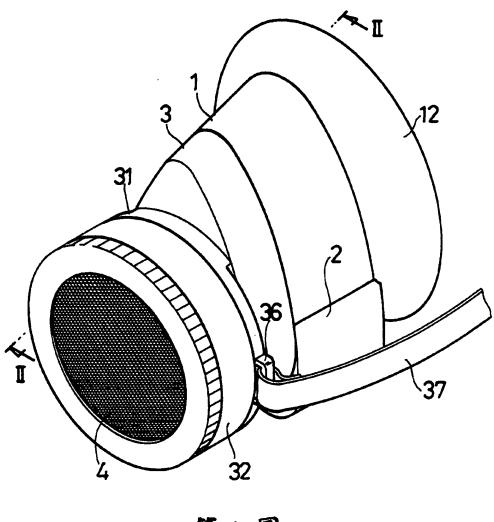
由以上詳細說明,可使熟知本項技藝者明瞭本創作的確可達成前述目的,實已符合專利法之規定,爰提出新型專利申請。

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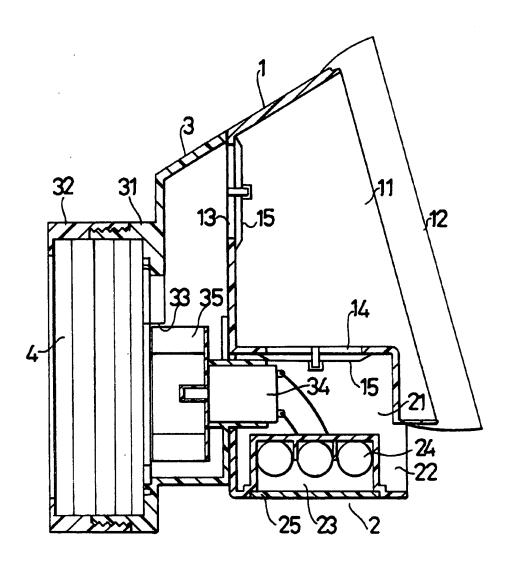
### 六、申請專利範圍

- 1 . 一種防毒面具之改良結構,包括有:
  - 一後單體,該後單體具有一向後之關口,該關口之外閱書設有一環狀之密封整,該密封整係以軟質條即所製造而成,該後單體之前獨面具有一造風口,而該後單體之底面具有一出風口,該造風口之後假及出風口之底部分別具有一止回襲;
  - 一電池麼,其係設於後單體之底部,該電池座與後單體之間形成一排氣空間,該電池座之後傷底錄具有排氣口,該電池座具有一容置空間。該容置空間中可放置多數電池,該容置空間之間口處設有一底蓋;
  - 一前單體,其係固設於後單體與電池歷之前端,該前單體之前端具有一團形之固定座,該固定座之證體。數學是一個形之證體,該過體係以一環形之證體與固於固定座內具有一透孔,該前單體後豐底緣設有一由電池提供電源之馬達,該馬強之前端連結一風景,該風扇恰好位於透孔內。
- 2. 依申請專利範團第1項所述之防毒面具之改良結構, 其中,該前單體之左、右二個分別具有一耳部,該二 耳部係用以連結一帶子。

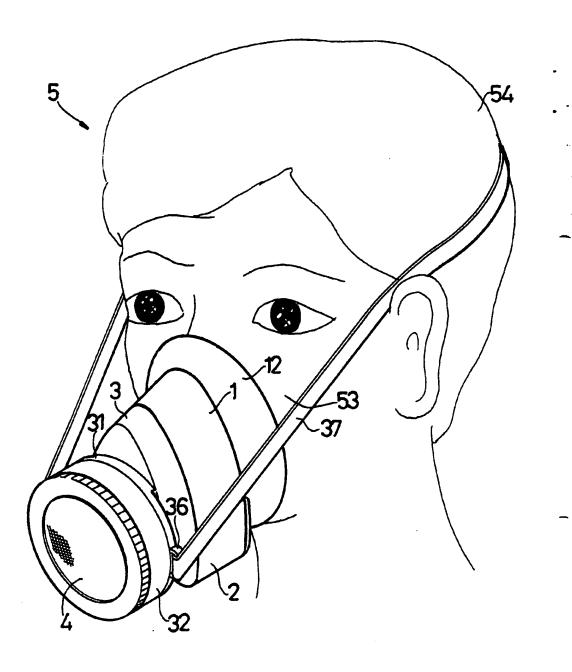


第1圖

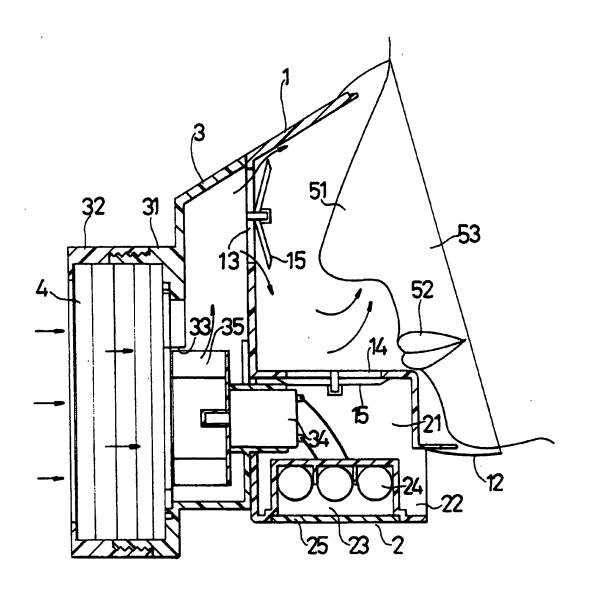
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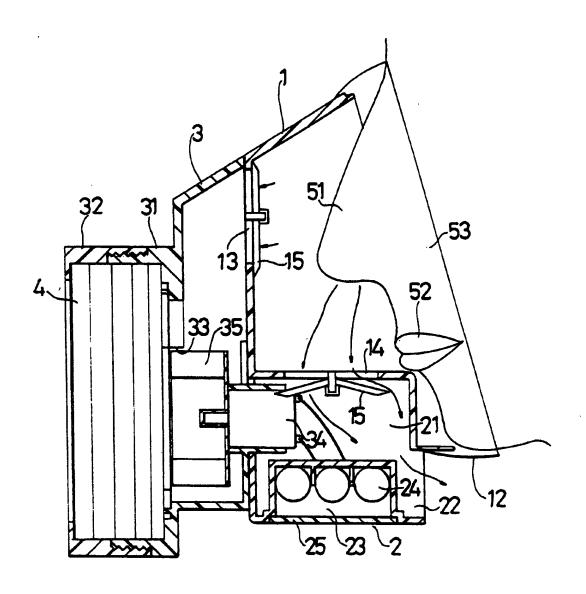
第2圖



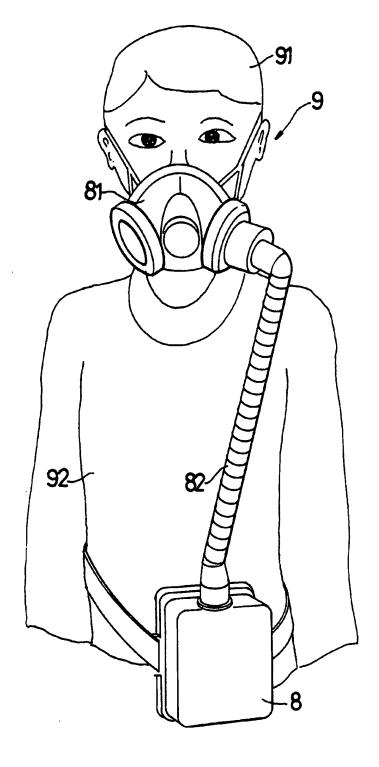
第 3 圖



第 4 圖



第 5 圖



第6圖